

The Ohio Water Table

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Furl Williams Reservoir Stream and Wetland Mitigation Update

By **Scott Ross**, PWS, CPESC, Natural Resources Project Manager, S&ME, Inc.



In 2011, the City of Lima completed construction of a 5.2-billion-gallon off-stream water storage reservoir (Furl Williams Reservoir) to meet future supply needs. The reservoir site covers one-square mile (640 acres). The project also included installation of a pump station along the Auglaize River and over two miles of water lines. S&ME performed extensive environmental assessments, jurisdictional waters delineations, and waterway permitting as part of the initial design.

During the design stage, a jurisdictional waters delineation was completed in 2005 to document on-site surface water resources. Over 50 acres of wetlands (including high quality (Category 3) wetlands) and approximately 1,800 linear feet of channelized intermittent streams were identified on the reservoir site. Note: wetland habitat quality (i.e., Category) was determined by completion of the Ohio Rapid Assessment Method for wetlands (ORAM) published by the Ohio Environmental Protection Agency (Ohio EPA) in 2001. Following the jurisdictional determination that was completed by the United States Army Corps of Engineers for the on-site stream and wetland boundaries and



verification of the resource quality by the Ohio EPA, the reservoir footprint was modified to avoid impacts to Category 3 wetlands and minimize impacts to the streams and non-Category 3 wetlands.

Figure 1: Aerial view of 5.2-billion-gallon Furl Williams Reservoir during construction (Bresler Reservoir is pictured in the background)

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President's Column

Craig Smith, WMAO 2018-2019 President

How many of us celebrated World Wetlands Day on February 2? What did you do last month to celebrate National Groundwater Awareness Week? What about World Water Day on March 22? I doubt that many of us paid much attention to any of these. I barely noticed National Groundwater Awareness Week, which is an awful admission for a past Ground Water Director. None of these were local, state or national holidays. I don't recall seeing any of these mentioned in the media. There aren't parades or proclamations or even cake. We didn't get the day off. We did what we like

to: protect, restore, manage, and educate about our shared water resources.

I'm thinking about this because National Drinking Water Week is May 6 through 12. National Drinking Water Week is not just about having safe drinking water when you or I turn on the faucet. It's about all the things – large and small – that go into one of our most critical infrastructures. This year's theme, "Protect the Source", captures that notion. It's about protecting the streams, lakes and aquifers that we and our communities rely on every day. Protecting the source is the sum of the work each of our disciplines adds up to. We collect and analyze the data showing that restoring a critical wetland will help control runoff into the stream and thereby reduce the contaminant loading in the multiple use reservoir which will reduce the treatment cost incurred by the water system ensuring you continue to have safe drinking water to make your coffee (or tea). For me this is WMAO in a nutshell – a lot of intelligent, motivated individuals and organizations that understand the interconnectedness of our water resources.

"...WMAO in a nutshell—a lot of intelligent, motivated individuals and organizations that understand the interconnectedness of our water resources."

My point is this: much of what we do goes unnoticed. We can at least recognize each other for our contributions to managing Ohio's water resources. Most Ohioans know little about what we do; most residents of our cities can't tell you where their drinking water comes from or where their waste water goes. The few that notice usually speak up only when things go sideways. Which I like to think isn't very often. I think that's a tribute to the hard work and dedication of WMAO members.

So, if you need an excuse for a little cake and ice cream try National Infrastructure Engineers / System Administrator Appreciation the last Friday in July or World Rivers Day the last Sunday of September. Let's not forget to celebrate National Infrastructure Week May 14 through 21 and National Fishing and Boating Week between June 2 and 10. If a week isn't enough July is Lakes Appreciation Month and August is National Water Quality Month. Or maybe we can join the Georgia Association of Water Professionals and celebrate Water Professionals Appreciation Day on first Monday in May or California for Water Professionals Week in October.

All I can do is say thank you for all you do to for our water resources. And for being a member of our organization. But then, a parade would be pretty cool ...

A handwritten signature in black ink, appearing to be "Craig Smith", with a long horizontal line extending to the right.

Furl Williams Reservoir Stream and Wetland Mitigation Update

Continued from Page 1

A Clean Water Act Section 404 Permit and Section 401 Water Quality Certification were obtained from the regulatory agencies for proposed surface water impact the surface water resources located within the reservoir construction limits. As part of the permit conditions, the mitigation requirements included over 3,300 linear feet of stream restoration and 13 acres of wetland creation and enhancement. In addition, the Category 3 wetlands were to be preserved in perpetuity

For the stream mitigation component, two streams located near the project site were identified as suitable candidates for restoration. The streams were degraded (i.e., channelized and entrenched)

and provided limited ecological function and floodplain access. A self-forming channel design was utilized to restore the streams. An over-wide floodplain (approximately 50 feet) was excavated and planted with a wetland seed mix. Woody vegetation (shrub and tree species) was planted along both stream corridors. A combination of live stakes and containerized stock was utilized for the plantings.

During the mitigation monitoring that was completed following construction, channel development through natural depositional processes was observed. An emergent/scrub-shrub plant community was established and should continue on a successional trajectory that will provide shaded cover along the riparian corridor. The ecosystem services for the restored streams improved significantly. The stream reaches and adjacent floodplains now provide increased benefits such as flood storage, pollutant retention/treatment, sediment deposition, and terrestrial habitat diversity.

Wetland mitigation for the project included the restoration of over 13 acres of forested wetlands. An agricultural row-crop field located adjacent to an existing forested wetland was selected for the restoration site. A significant portion of the mitigation area was believed to be a wetland prior to the agricultural conversion.

To start the mitigation construction, the hydrology was restored by removing the subsurface drainage tile system around the perimeter of the wetland area. Grading was completed to provide a heterogeneous substrate with interspersed vernal pool and upland habitat. Following the grading, the area was planted with a wetland seed



Figure 2: Self-forming channel development by natural depositional processes



Figure 3: Mitigation wetland with emergent and scrub-shrub habitat interspersion



Figure 4: Supplemental shrub and tree species installation in mitigation wetland

mix. The seed bank also provided a supplemental source for vegetative establishment. A combination of live stakes and containerized stock was used for the (shrub and tree) plantings. Natural recruitment from the adjacent forested wetland provided an additional seed source for herbaceous and woody vegetation.

During the mitigation monitoring period, adaptive management and maintenance was performed. Invasive species, such as cattails and reed canary grass, were removed to promote the establishment of the native species. Supplemental shrub and tree species were also installed in order to increase the woody species density and demonstrate that the wetland was on a trajectory to becoming a forested community. An additional

year of monitoring beyond the five-year period was required to confirm survival of the supplemental woody species that were planted. These wetland vegetation objectives were accomplished along with the creation of a diverse plant community that exceeded the permit performance goals. The wetland restoration area will provide some of the same ecosystem benefits that are being delivered by the stream mitigation corridors. Monitoring was completed in 2017 and the mitigation areas will continue to be managed by the City of Lima.

WMAO \$1,000 Student Scholarships

Scholarships are offered to one graduate and one undergraduate each spring. Applications this year are due through The Columbus Foundation by May 11, 2018.

Submit online:

<https://tcf-apply.fluidreview.com/>

Research Highlights from State of Ohio Water Resources Center

When Groundwater Meets the Surface: Measuring the Invisible

By **Danielle Kohan**, graduate Administrative Assistant, Ohio Water Resources Center

It was a wet afternoon, but equipped with rain gear, I followed Professor Audrey Sawyer and her team from the School of Earth Sciences at The Ohio State University out to Darby Battelle Metro Park to learn more about their research and get a first-hand view of science in action. Today's objective was for the team to test out some equipment they planned to use in an upcoming research trip. These tools are necessary in the objective of their work: to determine where groundwater meets surface water. This work is significant because it can shed light on how



Photo 1: *Using the temperature probe in the riverbed*

groundwater can transport nutrients to the surface; contributing to the overall solution of decreasing nutrient pollution.

We arrived at the Big Darby Creek to find it was almost completely frozen over, making liquid water inaccessible but the team was able to use their temperature probe in the riverbed next to the ice. Two students on Audrey's team, Amelia and Alexandra, placed the probe into the ground several inches, and there it was – a temperature change indicative of groundwater. Groundwater is usually different in temperature than the surface water – sometimes in the year it is colder, sometimes warmer. In the winter, it is warmer. By measuring the change in temperature, the team is able to detect where groundwater is flowing.

After hearing a very audible ice crack, the team decided to look for a more thawed stream so readings could be taken in the stream bed itself (without worrying about falling through the melting ice). A little further down the road, and after a short hike through the muddy terrain, we found a small stream of flowing water. They set to work measuring the stream width and using markers to grid out the area in which they were going to insert the probe. From the determined temperature differences, they are able to map where the groundwater was discharging.

As the groundwater flows up, it could carry with it nutrients and contaminants that feed into the rivers and streams, which end up in a larger body of water. Quantifying this information can help us understand how much groundwater contributes to what we see in our rivers and lakes. In the project funded by the Ohio Water Resources Center, the Sawyer team measured how much groundwater was seeping into Lake Erie to determine if the groundwater was contributing significant nitrogen and phosphorus – the key nutrients that lead to harmful algal blooms. Mapping out an area of groundwater discharge can help put eyes on the “hidden” contributions groundwater makes to nutrient pollution.

The team worked diligently to attain accurate readings at each point in the grid. The water and sediments were almost freezing – they were getting readings as low as 0.1 degrees Celsius, so they each took turns inserting the probe into the river sediment while the other two would record the temperature and let their hands warm up. This data, combined with their expertise of river formation and characteristics, will contribute to the production of usable maps – a way to “see” groundwater and keep its contributions in mind.



Photo 2: *Measuring and marking a grid*

Call for Papers

WMAO 47th Annual Conference in conjunction with NALMS

WMAO papers will be presented on October 31, 2018

Submit abstracts at <http://wmao.org/call-for-abstracts/> by June 1st.

38th International Symposium of the North American Lake Management Society

October 30 – November 2, 2018

Duke Energy Convention Center • Cincinnati, Ohio

Photo: Chris Thompson

Now Trending: Innovations in Lake Management

The Ohio Lake Management and Indiana Lakes Management societies are excited to welcome NALMS to the Midwest's "Queen City," Cincinnati, Ohio. On the shores of the mighty Ohio, the river was impounded to serve modern navigation; those impoundments now function like a series of lakes. Cincinnati is also home to a burgeoning craft-brewery industry that is certain to be one focus for conference outings. With Thomas More College's field station, active urban reservoir projects, and Environmental Protection Agency research facilities nearby, we'll find plenty to see, do, learn.

Our region is also bordered by the Great Lakes to the north, and our conference theme is well served by recent cutting-edge efforts to understand and mitigate western Lake Erie's press-grabbing eutrophication issues.

Join us at one of the nation's most opulent masterpieces of art-deco architecture, the award-winning Hilton Netherland Plaza, a short walk from sessions at the convention center.



*Photo: Hilton Cincinnati
Netherland Plaza*



Preliminary Session Topics

We encourage the submission of abstracts for papers or posters on any of the topics listed below, or abstracts that address topics of broad interest to the lake and reservoir management community.

- Monitoring Technologies
- Autonomous Sampling
- Remote Sensing
- Large Data Sets
- Toxins in Source Waters
- Nutrient and Water-quality Management
- Utilizing Citizen Science
- Harmful Algal Blooms
- Great Lakes
- Inter-basin Water Management
- Combating Invasive Species
- Riverine Impoundments as Lakes
- Environmental DNA
- Geospatial Applications



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General Conference, Exhibitor & Sponsorship Information

NALMS Office

608-233-2836 • www.nalms.org

Important Dates

May 11, 2018

Abstracts due.

Late Spring

Registration opens.

August 17, 2018

Registration and payment from presenters of accepted abstracts due.

September 28, 2018

Last day conference hotel rate available.

Visit www.nalms.org/nalms2018 for more information and to submit your abstract.

Ohioans Fish for Free First Weekend in May

Press Release - Ohio DNR Division of Wildlife

COLUMBUS, OH – Ohio is known for its world-class fishing, and on May 5-6, anglers are invited to take part in the annual free fishing weekend, according to the Ohio Department of Natural Resources (ODNR). Ohio's Free Fishing Days are open to all Ohio residents and extend to all of Ohio's public waters, including Lake Erie and the Ohio River. This is the only weekend all year that does not require anyone 16-years-old or older to obtain a fishing license.

The ODNR Division of Wildlife's six fish hatcheries stocked more than 66 million sport fish in public waters in 2017, including walleye, saugeye, steelhead, rainbow trout, brown trout, muskellunge, channel catfish, blue catfish and hybrid striped bass, which will provide opportunities for more than 1.3 million Ohio anglers.

Ohio State Parks is also offering a camping discount during Ohio's Free Fishing Days. Campers can receive a 20 percent off discount May 4-6 by using the promotion code 18ANGLER.

The Free Fishing Days weekend offers Ohioans of all ages the chance to experience the fun of catching a fish. Here are some helpful tips for taking a youngster out fishing.

- Keep the trip simple by considering a child's age and skill level.
- Choose a pond, lake or stream where children will be able to easily catch a few fish.
- A spin-cast reel is usually the easiest for kids to use.
- Bring a camera and snacks.
- Be patient – plan on spending time untangling lines, baiting hooks, landing fish and taking pictures.
- Most of all, have fun.

Anglers 16 years and older are required to have a valid fishing license to take fish, frogs or turtles from Ohio waters when not fishing on Ohio's free fishing weekend. An Ohio resident fishing license is only \$19 a year for residents. Fishing licenses are available at participating agents and wildohio.gov.

The sales of fishing licenses, along with the Sport Fish Restoration (SFR) program, continue to fund ODNR Division of Wildlife's fish management operations. No state tax dollars are used for these activities. These are user-pay, user-benefit programs.

The SFR is a partnership between federal and state governments, industry and anglers/boaters. When anglers purchase rods, reels, fishing tackle, fish finder and motor boat fuel, they pay an excise tax. The federal government collects these taxes, and the U.S. Fish and Wildlife Service administers and disburses these funds to state fish and wildlife agencies. These funds are used to acquire habitat, produce and stock fish, conduct research and surveys, provide aquatic education, and acquire and develop boat accesses.





Division Updates

By **Kurt Keljo**, OWPA President

With summer fast approaching, OWPA is working on several events. We are planning a two day canoe trip on the Little Miami that will feature educational/training components in addition to the opportunity to enjoy the river and network with others. We are also working on holding several workshops/training events across the state on sampling macroinvertebrates and identifying them to the family level. A workshop in central Ohio will also feature training in using the Citizen's Qualitative Evaluation Index (cQHEI). If there is interest, we may be able to offer cQHEI training in other parts of the state as well. If you would be willing to host a workshop/training event in your area, please contact Kurt Keljo (kkeljo@franklinswcd.org, 614-486-9613 x. 121).

Ohio Floodplain Management Association



Division Updates

By **Stephen Moore**, OFMA President

Save the Date –

2018 Ohio Statewide Floodplain Management Conference- Columbus, Ohio August 1-2, 2018. Check out the OFMA Website for more information www.ofma.org

2019 ASFPM Annual Conference- Cleveland, Ohio, May 19-24. OFMA is the host chapter for this conference. If you would like to volunteer to serve on the conference committee or just help at the conference please contact Alicia Silverio at alicia.silverio@dnr.state.oh.us or Shawn Arden at sarden@emht.com . Thank you in advance for your willingness to serve.

Membership - Please remember when filling out your 2018 WMAO membership application to check OFMA as your primary Division Affiliation. By designating OFMA it will help us provide better service, information and training to those who are interested in floodplain issues across the State of Ohio.

NFIP Reauthorization

Congress must periodically renew the NFIP's statutory authority to operate. On March 23, 2018, the President signed legislation passed by Congress that extends the National Flood Insurance Program's (NFIP's) authorization to July 31, 2018.

Congress must now reauthorize the NFIP by no later than 11:59 pm on **July 31, 2018**.

OFMA Scholarships

To ensure that **local floodplain managers** have a chance to develop and grow their professional expertise, the Ohio Floodplain Management Association's (OFMA) Managing Board has approved the granting of limited scholarships for attendance at the annual conference. Scholarships cover the cost of registration and may include one night's lodging for floodplain managers who work and live in communities located outside of Franklin and contiguous counties.

If you are interested in attending this year's Statewide Floodplain Conference, August 1-2, 2018 and your community can not provide training/education funds to support you, we would like to offer you an opportunity for an OFMA Scholarship. Please submit your request for the scholarship on your local government letterhead. Indicate if you are requesting both registration and lodging (if eligible).

Scholarships will be granted on a first-come-first-serve basis by the Committee. Scholarships will not be awarded to Federal or state agency representatives or private sector consultants who may be serving as local floodplain managers.

Scholarship recipients will be asked to volunteer at the conference by moderating two sessions during their attendance. Moderator duties include introducing the presenter(s), reading a very brief presenter biography (provided by OFMA), ensuring the session begins/ends on schedule, and obtaining help from the AV Coordinator if technical difficulties arise.

To learn more about OFMA please visit our web site at www.ofma.org. The **DEADLINE for requesting a scholarship is July 2, 2018 (or sooner if the available scholarships have been awarded prior to the deadline)!**

Please direct any questions to:

Cindy Crecelius, OFMA Awards and Scholarship Committee Lead
179 Baranof East
Westerville, Ohio 43081
Phone: (614) 891-1595
ccconsults.cjc@gmail.com

OFMA Recognition Awards

During the annual Floodplain Management Conference, Ohio Floodplain Management Association (OFMA) recognizes communities, individuals and agency partners that help promote the best practices in floodplain management. **OFMA needs your help to identify communities and clients who demonstrate leadership for floodplain management, or implement innovative projects and activities to reduce flood risk.** We encourage you to nominate deserving peers and projects. Selected nominees will be recognized at the 2018 Floodplain Management Conference in August. The OFMA award categories are:

Floodplain Administrator of the Year is designed to honor an individual who is a role model and inspiration because of their contributions to an outstanding local program for comprehensive floodplain management. The nominee must be employed by a county, city or village as a local floodplain manager.

Innovation in Floodplain Management is awarded to those demonstrating creative approaches for achieving flood loss reduction, stewardship of floodplain resources and functions, resiliency in the face of disasters in their communities or the state. The nominee may be an individual, organization, public or private sector, government agency, regional agency or academic institution that is currently working or contributing to active water resource management programs or projects.

Most Valuable Contribution to Floodplain Management is a tribute to Peter G. Finke for his distinguished service and leadership in the formation of Ohio's Floodplain Management Program. It is considered for those who have extensive service (over the course of a career) and have improved the quality of life for all Ohioans through better water resource management. Consideration may be given to individuals working in floodplain management, stormwater management, coastal management or the natural benefit and function of floodplains. The recipient will be selected based upon their outstanding contribution to the multifaceted aspects of floodplain management.

The OFMA nomination process is simple. Basic information about the nominees' merit and accomplishments, their contact information, and your relationship/perspective (concerning the nominee's worthiness) are what we need. Please consider completing a nomination form and provide brief supporting material to help the Award Committee to select the most deserving nominee.

The nomination form and information on where to submit are available from the OFMA web site at www.ofma.org. **Nomination DEADLINE is July 2, 2018!** Please direct any questions or suggestions to:

Cindy Crecelius, OFMA Awards
and Scholarship Committee Lead
179 Baranof East
Westerville, Ohio 43081
Phone: (614) 891-1595
ccconsults.cjc@gmail.com

THANK YOU for your time and consideration of the deserving individuals, agencies, organizations and programs working to achieve the best practical water resource management across Ohio.



Ohio Federation of Soil and Water Conservation Districts Celebrates 75 Years!

By **Mindy Bankey**, OFSWCD

The Ohio Federation of Soil and Water Conservation Districts' (OFSWCD) conducted the association's 75th Annual Conservation Partnership Conference, "From Dust to Diamonds," this past February. The event's attendance included over 600 conservation leaders representing the local, state and federal government, farmers, business owners and many more. The Annual Meeting is conducted yearly in downtown Columbus and is focused on conservation training, development, education and outreach.



During this year's meeting, the following SWCDs were recognized for celebrating 75 years: Butler, Clark, Columbiana, Coshocton, Guernsey, Highland, Monroe, Morrow, Noble, Tuscarawas, Clermont, Fairfield, Logan, Meigs and Miami. Rick Bryan, a former Lucas SWCD Supervisor and Tom Reininger, a former Hamilton SWCD Supervisor and OFSWCD Past President, were inducted into the OFSWCD Supervisors Hall of Fame. Noble SWCD's retiring Program Administrator Jim Mizik and Harrison SWCD received the President's Award for service and a number of individuals were recognized for their 20,30 and 40 years of service. The 75th Diamond Reception and Gala event on Tuesday evening brought many longtime current and past conservation partners together to celebrate successes throughout the 75 years including. Those who participated in this special celebration included: OFSWCD Hall of Fame Members, former OFSWCD Presidents and Auxiliary members, Division of Soil and Water Conservation Chiefs and staff, retired SWCD staff members, retired USDA-NRCS employees and members of the Ohio Legislature.

Each year, Farm Credit of Mid-America recognizes Ohio's Cooperator of the Year. This year's recipient was the Bishops' of Hocking County for donating property to Hocking SWCD to use for conservation education. Brenda Siepmann from Clermont county and Anita Barnhart from Medina counties were recognized as the Teachers of the Year. Cuyahoga SWCD was recognized with the District of the Year for Excellence in Education. The Ohio Association of Soil and Water Conservation District Employees' recognized Mike Sheeter of Jackson SWCD as the Supervisor of the Year and Susan Kuba of Delaware SWCD as Professional Employee of the Year. The USDA-NRCS recognized Earth Team Winners Sandusky, Gallia and Hocking counties for their excellent partnership efforts.

This year's event included special guest speaker, Ernie Shea of Solutions from the Land. He shared with the audience the importance of the past and present – but also highlighted conservation efforts happening to ensure a strong and healthy future. Various training workshops included topics such as water quality, soil health and cover crops, special program outreach, staff retention and so much more. In addition, Ohio's Envirothon program's silent auction produced additional financial support to the High School Environmental Competition, which begins next month and concludes with the State competition in June at Cedarville University.

The event was sponsored by over 30 different supporters and the meeting's annual Trade Show experienced a record number of exhibitors!

WATER MANAGEMENT ASSOCIATION OF OHIO

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Dana Oleskiewicz, Administrative Director

www.wmao.org

The Water Management Association of Ohio (WMAO) is the one organization dedicated to all of Ohio's water resources.

VISION: To be recognized statewide as the go-to community for people who manage and safeguard Ohio's water resources.

MISSION: To support Ohio's water resource professionals with essential information, education, and networking opportunities

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